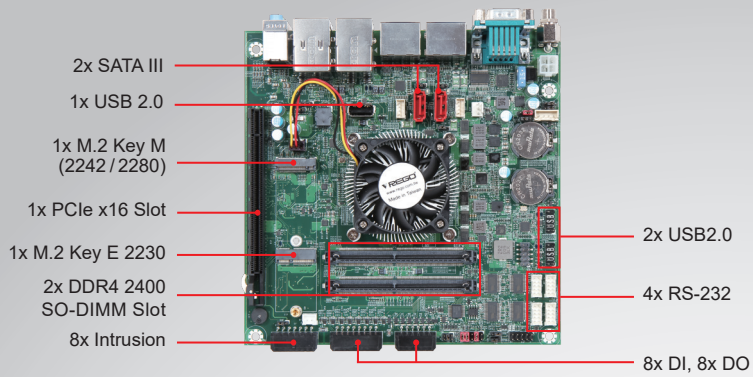
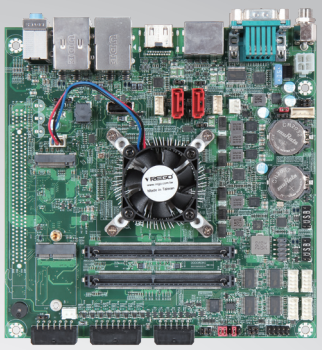
GMI-6310

AMD V1000 / R1000 Processor based Mini-ITX board with HDMI 2.0, DDR4 SO-DIMM, and Gaming Functions



● GMI-6310-V1605 Front View

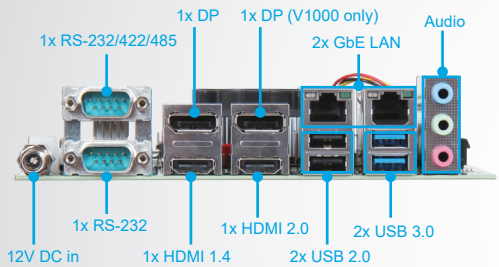


● GMI-6310-R1305 Front View

FEATURES

- AMD V1000 / R1000 Family
- Quad / Triple Display with DP 1.2 / HDMI 2.0 / HDIM 1.4
- 8x DI, 8x DO, 8x intrusion inputs, & HW ID
- Support M.2 2242 / 2280 SATA / NVME
- Support M.2 2230 Wi-Fi

REAR I/O



ORDERING GUIDE

AB6-3371Z	(R).GMI-6310-V1605 .Mini-ITX Board with AMD Ryzen V1605B SOC, 12V Input, DP*2, HDMI*2, LAN*2, USB*8, Audio, GPI*8, GPO*8, Intrusion*8, DDR4 SO-DIMM*2, with cooler
AB6-3372Z	(R).GMI-6310-R1606 .Mini-ITX Board with AMD Ryzen R1606G SOC, 12V Input, DP*1, HDMI*2, LAN*2, USB*8, Audio, GPI*8, GPO*8, Intrusion*8, DDR4 SO-DIMM*2, with cooler
AB6-3091Z	(R).GMI-6310-R1505 .Mini-ITX Board with AMD Ryzen R1505G SOC, 12V Input, DP*1, HDMI*2, LAN*2, USB*8, Audio, GPI*8, GPO*8, Intrusion*8, DDR4 SO-DIMM*2, with cooler
AB6-3086Z	(R).GMI-6310-R1305 .Mini-ITX Board with AMD Ryzen R1305G SOC, 12V Input, DP*1, HDMI*2, LAN*2, USB*8, Audio, GPI*8, GPO*8, Intrusion*8, DDR4 SO-DIMM*2, with cooler

GENERAL

Processor	AMD V1000 / R1000 SoC
Memory	Dual Channel ECC/ non-ECC DDR4 2400 SO-DIMM, up to 32GB
Storage Devices	2x SATA III M.2 2242 / 2280 SATA / NVME
Watchdog Timer	Programmable 1 ~ 255 sec
Hardware Monitoring	- Fan speed - Temperature - Voltage
Expansion Interface	- 1x PCIe x16 Slot (V1605B:x8 / R1000:x4) - 1x M.2 Key E for Wi-Fi
Gaming function	- TPM 2.0 on board - 8x Intrusion Detection Pin - 8x Digital Input - 8x Digital Output, 500mA, 50V Open Drain - 1x 64K Bit FRAM - 1x Software Define LED - H/W UID

I/O INTERFACE

Audio	- Audio Jack on rear IO - Line in / Line out / MIC in - Support S/PDIF Header
Ethernet	2x GbE LAN
Serial Port	- 1x RS-232/422/485 on rear I/O (9-bit Support) - 1x RS-232 on rear I/O (9 bit Support) - 3x RS-232 Box Header (9 bit Support) - 1x RS-232 & ccTalk Box Header (9 Bit Support)
USB	- 2x USB 3.0 on rear I/O - 2x USB 2.0 on rear I/O - 4x USB 2.0 internal header - 1x USB 2.0 internal Type A

GRAPHIC

Graphic Controller	AMD VEGA 8 / VEGA 3 Graphics DirectX 12, OpenGL 4.6, OpenCL 2.1
Display Interface	- 2x Display Port Up to 3840 x 2160 (4K) (V1000) - 1x Display Port Up to 3840 x 2160 (4K) (R1000) - 1x HDMI 2.0: Up to 3840 x 2160 (4K) - 1x HDMI 1.4: Up to 3840 x 2160 (4K)

MECHANICAL & ENVIRONMENT

Dimension	Board: 170 mm (L) x 170 mm (W)
Power Requirement	12V DC IN
Environment	- Operation Temperature: 0°C~ 60°C - Storage Temperature: -20°C~ 85°C - Relative Humidity: 10%~ 95%, non-condensing